

**Patent claims**

1. Foldable spectacles with two spectacle lenses (1a, 1b) which can be adjusted between a wearing position and a folded position and which are connected to one another by a nosepiece (10), which nosepiece (10) lies on a connecting axis (1') extending approximately in the plane of the spectacle lenses (1a, 1b) and comprises a folding joint (15) for folding the spectacles, characterized in that the folding joint (15) can be rotated about a rotation axis (m), extending at an acute angle ( $\beta$ ) to the connecting axis (1'), such that the spectacle lenses (1a, 1b), after being rotated through 180°, come to lie in the same plane next to one another in the folded position.
2. The foldable spectacles as claimed in claim 1, characterized in that the folding joint (15) comprises two folding-joint parts (12a, 12b) which each have a hinge surface (16) whose surface normals coincide with the rotation axis (m), the hinge surfaces (16) lying on one another and being connected releasably by a securing means (13).
3. The foldable spectacles as claimed in claim 2, characterized in that the connection between the folding-joint parts is pretensioned with a spring element (14) in the direction of the rotation axis.
4. The foldable spectacles as claimed in one of claims 1 through 3, characterized in that the acute angle ( $\beta$ ) between the connecting axis (1') and the rotation axis (m) is between 30° and 60°, in particular between 40° and 50°.

5. The foldable spectacles as claimed in one of claims 1 through 4, characterized in that, at least on one spectacle lens (1a, 1b), a sidepiece (2a, 2b) is secured by means of a sidepiece hinge (5a, 5b) on a sidepiece mount (3a, 3b) fixed on the spectacle lens (1a, 1b), in such a way that the sidepiece (2a, 2b) can be rotated from a wearing position, in which it lies substantially perpendicular to the plane of the spectacle lenses (1a, 1b), into the plane of the adjoining spectacle lens.
6. The foldable spectacles as claimed in claim 5, characterized in that the sidepiece mount (3a, 3b) has a rotary bushing (8a, 8b) at one end, and that end of the sidepiece (2a, 2b) oriented toward the sidepiece hinge has a fork-shaped projection (7a, 7b) with two tabs which are spaced apart and which have bores for receiving a rotary pin (9a, 9b), the rotary bushing (8a, 8b) lying between the two tabs of the fork-shaped projection (7a, 7b).
7. The foldable spectacles as claimed in claim 6, characterized in that the rotary bushing (8a, 8b) is designed as a disk-shaped locking element (21a, 21b) with a peripheral surface (23a, 23b), and the peripheral surface (23a, 23b) has at least two trough-like depressions (22a, 22b) for receiving a resilient catch element (27a, 27b) at the end of the sidepiece (2a, 2b), the trough-like depressions (22a, 22b) being arranged at an angle of approximately 90° relative to the rotation axis extending through the rotary bushing (8a, 8b) and being used to releasably lock the sidepiece (2a, 2b) in the wearing position or in the folded position.

8. The foldable spectacles as claimed in one of claims 5 through 7, characterized in that the sidepiece (2a, 2b) is divided into a temple sidepiece (30a, 30b), bearing on the sidepiece hinge (5a, 5b), and an ear sidepiece (40a, 40b), an intermediate hinge (35a, 35b) being arranged between the temple sidepiece (30a, 30b) and the ear sidepiece (40a, 40b), and the ear sidepiece being able to be pivoted between a deployed position, extending coaxially with respect to the long sidepiece, and an angled position in which it is bent approximately at a right angle with respect to the temple sidepiece.
9. The foldable spectacles as claimed in claim 8, characterized in that the intermediate hinge (35a, 35b) has a catch device for releasably locking the ear sidepiece in the deployed position or angled position.
10. The foldable spectacles as claimed in one of claims 5 through 9, characterized in that the sidepiece (2a, 2b) is designed as a telescope.
11. The foldable spectacles as claimed in one of claims 8 through 10, characterized in that the temple sidepiece (30a, 30b) is designed as a telescope, said temple sidepiece (30a, 30b) having a hollow space which, at least in an end area directed toward the ear sidepiece (40a, 40b), contains a telescope guide element (48a, 48b) whose inner cross section has a polygonal configuration and receives a telescope insert (31a, 31b) of corresponding polygonal cross section, the telescope insert (31a, 31b) preferably being connected by means of a telescopic spring (33a, 33b) fitted in the cylindrical hollow space of the temple side-

piece (30a, 30b), in such a way that said telescope insert (31a, 31b) is ejected from the hollow space.

12. The foldable spectacles as claimed in claim 11, characterized in that the telescope insert (31a, 31b), along its longitudinal axis, is twisted in cross section in such a way that the telescope insert (31a, 31b) inserted fully into the hollow space of the temple sidepiece (30a, 30b) is rotatable about its longitudinal axis.
13. A spectacle case for storage of foldable spectacles with two spectacle lenses which can be folded about a folding joint, in particular as claimed in one of claims 1 through 12, the spectacle case comprising two housing parts (50, 51) connected by a hinge (54), characterized in that the spectacle case has securing means (55a, 55b, 56a, 56b) for releasable attachment of the spectacles, and in that the securing means (55a, 55b, 56a, 56b) are arranged in such a way that, when the spectacles are placed in the case, the hinge axis and the rotation axis ( $m$ ) of the folding joint (15) coincide.
14. The spectacle case as claimed in claim 13, characterized in that the housing parts (50, 51) of the spectacle case each have a peripheral collar (53), each of these having, at least in some areas, a hollow edge (57, 58) which is open toward the hollow space of the spectacle case and partially receives the sidepieces (2a, 2b).
15. The spectacle case as claimed in claim 13 or 14, characterized in that a housing part (50, 51) has an opening (65, 66) into which a magnifying glass (52) is fitted.

16. The spectacle case as claimed in claim 15, characterized in that, when the spectacle case is folded shut, the housing part (50, 51) lying opposite the opening (65, 66) for the magnifying glass has a corresponding window opening (65, 66) arranged in mirror symmetry.
17. An arrangement of foldable spectacles as claimed in one of claims 1 through 12 in the spectacle case as claimed in one of claims 13 through 16, characterized in that the spectacle lenses (1a, 1b) are arranged diagonally in the fully opened spectacle case.
18. The arrangement as claimed in claim 17, the spectacles comprising two sidepieces (2a, 2b) which consist of temple sidepiece and ear sidepiece, characterized in that the temple sidepieces (30a, 30b) bear on the long sides (60) of the housing parts (50, 51) opposite the hinge (54), and the ear sidepieces (40a, 40b) bear on the shorter sides (61) in such a way that the two spectacle lenses (1a, 1b) and the sidepieces (30a, 30b, 40a, 40b) are arranged in a Z shape when the spectacle case is in the fully opened state.